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RAW SEQUENCE LISTING

DATE: 03/12/2002

PATENT APPLICATION: US/10/027,075

TIME: 09:52:17

Input Set : N:\Crf3\RULE60\10027075.raw Output Set: N:\CRF3\03122002\J027075.raw

SEQUENCE LISTING

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3 (1) GENERAL INFORMATION:
             (i) APPLICANT: Gray, Gary S. et al.
      7
            (ii) TITLE OF INVENTION: CTLA4-Immunoglobulin Fusion Proteins
      8
                                      Having Modified Effector Functions and Uses Therefor
     10
           (iii) NUMBER OF SEQUENCES: 32
            (iv) CORRESPONDENCE ADDRESS:
     12
     13
                  (A) ADDRESSEE: LAHIVE & COCKFIELD
     14
                  (B) STREET: 60 State Street, suite 510
     15
                  (C) CITY: Boston
                  (D) STATE: Massachusetts
     16
                                                                ENTERED
     17
                  (E) COUNTRY: USA
     18
                  (F) ZIP: 02109-1875
     20
             (v) COMPUTER READABLE FORM:
     21
                  (A) MEDIUM TYPE: Floppy disk
                  (B) COMPUTER: IBM PC compatible
     22
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     23
     24
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
            (vi) CURRENT APPLICATION DATA:
     26
C--> 27
                  (A) APPLICATION NUMBER: US/10/027,075
C--> 28
                  (B) FILING DATE: 20-Dec-2001
     29
                  (C) CLASSIFICATION:
     31
           (vii) PRIOR APPLICATION DATA:
     32
                  (A) APPLICATION NUMBER: 09/227,595
     33
                  (B) FILING DATE:
     35
          (viii) ATTORNEY/AGENT INFORMATION:
     36
                  (A) NAME: Amy E. Mandragouras
     37
                  (B) REGISTRATION NUMBER: 36,207
     38
                  (C) REFERENCE/DOCKET NUMBER:
     40
            (ix) TELECOMMUNICATION INFORMATION:
     41
                  (A) TELEPHONE: (617)227-7400
     42
                  (B) TELEFAX: (617)227-5941
     45
        (2) INFORMATION FOR SEQ ID NO: 1:
     47
             (i) SEQUENCE CHARACTERISTICS:
     48
                  (A) LENGTH: 43 base pairs
     49
                  (B) TYPE: nucleic acid
     50
                  (C) STRANDEDNESS: single
     51
                  (D) TOPOLOGY: linear
     53
            (ii) MOLECULE TYPE: cDNA
     57
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     59 CATTCTAGAA CCTCGACAAG CTTGAGATCA CAGTTCTCTC TAC
                                                                                 43
     61 (2) INFORMATION FOR SEQ ID NO: 2:
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(i) SEQUENCE CHARACTERISTICS:

63

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PATENT APPLICATION: US/10/027,075 TIME: 09:52:17

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64
              (A) LENGTH: 46 base pairs
65
              (B) TYPE: nucleic acid
66
              (C) STRANDEDNESS: single
67
              (D) TOPOLOGY: linear
69
       (ii) MOLECULE TYPE: cDNA
73
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
75 CAGCAGGCTG GGCCACGTGC ATTGCGGAGT GGACACCTGT GGAGAG
                                                                             46
   (2) INFORMATION FOR SEQ ID NO: 3:
79
        (i) SEQUENCE CHARACTERISTICS:
80
              (A) LENGTH: 46 base pairs
81
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: single
              (D) TOPOLOGY: linear
83
85
       (ii) MOLECULE TYPE: cDNA
89
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
                                                                             46
91 CTCTCCACAG GTGTCCACTC CGCAATGCAC GTGGCCCAGC CTGCTG
93 (2) INFORMATION FOR SEQ ID NO: 4:
        (i) SEQUENCE CHARACTERISTICS:
96
              (A) LENGTH: 46 base pairs
97
              (B) TYPE: nucleic acid
98
              (C) STRANDEDNESS: single
99
              (D) TOPOLOGY: linear
101
        (ii) MOLECULE TYPE: cDNA
105
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
107 TGTGTGTGGA ATTCTCATTA CTGATCAGAA TCTGGGCACG GTTCTG
                                                                              46
109 (2) INFORMATION FOR SEQ ID NO: 5:
         (i) SEQUENCE CHARACTERISTICS:
111
112
               (A) LENGTH: 78 base pairs
113
               (B) TYPE: nucleic acid
114
               (C) STRANDEDNESS: single
115
               (D) TOPOLOGY: linear
117
        (ii) MOLECULE TYPE: cDNA
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
                                                                              60
123 GCATTTTAAG CTTTTTCCTG ATCAGGAGCC CAAATCTTCT GACAAAACTC ACACATCTCC
125 ACCGTCTCCA GGTAAGCC
                                                                              78
127 (2) INFORMATION FOR SEQ ID NO: 6:
129
         (i) SEQUENCE CHARACTERISTICS:
130
               (A) LENGTH: 20 base pairs
131
               (B) TYPE: nucleic acid
132
              (C) STRANDEDNESS: single
133
               (D) TOPOLOGY: linear
135
        (ii) MOLECULE TYPE: cDNA
139
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
141 TAATACGACT CACTATAGGG
                                                                            20
143 (2) INFORMATION FOR SEQ ID NO: 7:
145
         (i) SEQUENCE CHARACTERISTICS:
146
              (A) LENGTH: 66 base pairs
147
              (B) TYPE: nucleic acid
148
              (C) STRANDEDNESS: single
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149	, ,	
	(ii) MOLECULE TYPE: cDNA	
155	•	
	GAGCATTTTC CTGATCAGGA GTCCAAATAT GGTCCCCCAC CCCATCATCC CCAGGTAAGC	60
	CAACCC	66
	(2) INFORMATION FOR SEQ ID NO: 8:	
164	, , , , , , , , , , , , , , , , , , , ,	
165	· ·	
166	(B) TYPE: nucleic acid	
167	(C) STRANDEDNESS: single	
168	(D) TOPOLOGY: linear	
170	(ii) MOLECULE TYPE: cDNA	
174	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:	
176	GCAGAGGAAT TCGAGCTCGG TACCCGGGGA TCCCCAGTGT GGGGACAGTG GGACCCGCTC	60
178	TGCCTCCC	68
182	(2) INFORMATION FOR SEQ ID NO: 9:	
184	(i) SEQUENCE CHARACTERISTICS:	
185	(A) LENGTH: 59 base pairs	
186	(B) TYPE: nucleic acid	
187		
188		
190	(ii) MOLECULE TYPE: cDNA	
194		
196	GGGTTTTGGG GGGAAGAGGA AGACTGACGG TGCCCCCTCG GCTTCAGGTG CTGAGGAAG	59
	(2) INFORMATION FOR SEQ ID NO: 10:	
200	(i) SEQUENCE CHARACTERISTICS:	
201		
202		
203		
204		
206		
210	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:	
212	CATCTCTTCC TCAGCACCTG AAGCCGAGGG GGCACCGTCA GTCTTCCTCT TCCCCC	56
	(2) INFORMATION FOR SEQ ID NO: 11:	
216	(i) SEQUENCE CHARACTERISTICS:	
217		
218		
219		
220	(D) TOPOLOGY: linear	
222	(ii) MOLECULE TYPE: cDNA	
226	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:	
	CGCACGTGAC CTCAGGGGTC CGGGAGATCA TGAGAGTGTC CTTGGGTTTT GGGGGGAACA	60
	GGAAGACTGA TGGTGCCCCC TCGAACTCAG GTGCTGAGG	99
	(2) INFORMATION FOR SEQ ID NO: 12:	,,,
234	(i) SEQUENCE CHARACTERISTICS:	
235	(A) LENGTH: 99 base pairs	
236	(B) TYPE: nucleic acid	
237	(C) STRANDEDNESS: single	
238	(D) TOPOLOGY: linear	
200	(b) for oboti. Theat	

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PATENT APPLICATION: US/10/027,075

240	(ii) MOLECULE TYPE: cDNA	
244		
	CCTCAGCACC TGAGTTCGAG GGGGCACCAT CAGTCTTCCT GTTCCCCCCA AAACCCAAGG	60
	ACACTCTCAT GATCTCCCGG ACCCCTGAGG TCACGTGCG	99
	(2) INFORMATION FOR SEQ ID NO: 13:	
252	·	
253	(-,	
254		
255	(
256	· · ·	
258	· ·	
262	· ,	
	CATTCGCTTA CCTCGACAAG CTTGAGATCA CAGTTCTCTC TAC	43
		43
268	(2) INFORMATION FOR SEQ ID NO: 14:	
269	(·- , · 2 · · · · · · · · · · · · · ·	
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270		
271	, , , , , , , , , , , , , , , , , , ,	
272	· ·	
274	·	
278		0.1
	GGAGTGGACA CCTGTGGAGA G	21
	(2) INFORMATION FOR SEQ ID NO: 15:	
284	· · · -	
285	` '	
286	(-,	
287		
288		
290	· · · · · · · · · · · · · · · · · · ·	
294	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:	
	CTCCACAGGT GTCCACTCCG CAATGCACGT GGCCCAGCC	39
	(2) INFORMATION FOR SEQ ID NO: 16:	
300	(i) SEQUENCE CHARACTERISTICS:	
301	(A) LENGTH: 39 base pairs	
302	(B) TYPE: nucleic acid	
303	(C) STRANDEDNESS: single	
304	(D) TOPOLOGY: linear	
306	(ii) MOLECULE TYPE: cDNA	
310	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:	
312	GAGGTTGTAA GGACTCACCT GAAATCTGGG CTCCGTTGC	39
314	(2) INFORMATION FOR SEQ ID NO: 17:	
316	(i) SEQUENCE CHARACTERISTICS:	
317	(A) LENGTH: 39 base pairs	
318	(B) TYPE: nucleic acid	
319	(C) STRANDEDNESS: single	
320	(D) TOPOLOGY: linear	
322	(ii) MOLECULE TYPE: cDNA	
326	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:	
	GCAACGGAGC CCAGATTTCA GGTGAGTCCT TACAACCTC	39

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330	(2) INFORMATION FOR SEQ ID NO: 18:	
332		
333	(A) LENGTH: 39 base pairs	
334	(B) TYPE: nucleic acid	
335	(C) STRANDEDNESS: single	
336		
338	(ii) MOLECULE TYPE: cDNA	
342	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:	
344	GGCTAGATAT CTCTAGACTA TAAATCTCTG GCCATGAAG	39
346	(2) INFORMATION FOR SEQ ID NO: 19:	
348	(i) SEQUENCE CHARACTERISTICS:	
349	(A) LENGTH: 73 base pairs	
350	(B) TYPE: nucleic acid	
351		
352		
	(ii) MOLECULE TYPE: cDNA	
358		
	GGCACTAGGT CGACTCTAGA AACTGAGGAA GCAAAGTTTA AATTCTACTC ACGTTTAATC	60
	TGGGCTCCGT TGC	73
	(2) INFORMATION FOR SEQ ID NO: 20:	
366		
367		
368	· · · · · · · · · · · · · · · · · · ·	
369		
370	· · ·	
	(ii) MOLECULE TYPE: cDNA	
376		
	GCAGAGAGAC ATATGGCAAT GCACGTGGCC CAGCCTGCTG TGG	43
	(2) INFORMATION FOR SEQ ID NO: 21:	
382		
383		
384	· ·	
385	···	
386		
388		
392	(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:	
	GCAGAGAGAG GATCCTCAGT CAGTTAGTCA GAATCTGGGC ACGGTTCTGG	50
	(2) INFORMATION FOR SEQ ID NO: 22:	30
	• •	
398	(i) SEQUENCE CHARACTERISTICS:	
399 400	• •	
401	(B) TYPE: nucleic acid	
402 404	(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:	
408		60
	GGCACTAGTC ATGAAATACC TATTGCCTAC GGCAGCCGCT GGATTGTTAT TACTCGCTGC	107
	CCAACCAGCG ATGGCCGCAG CAATGCACGT GGCCCAGCCT GCTGTGG	10/
	(2) INFORMATION FOR SEQ ID NO: 23:	
420	(i) SEQUENCE CHARACTERISTICS:	

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/027,075

DATE: 03/12/2002 TIME: 09:52:18

Input Set : N:\Crf3\RULE60\10027075.raw
Output Set: N:\CRF3\03122002\J027075.raw

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]